

RAW SEQUENCE LISTING

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Information Center (STIC) no errors detected.

Application Serial Number: 10/571,836
Source: IFWP
Date Processed by STIC: 12/29/06

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IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/571,836

DATE: 12/29/2006

TIME: 15:35:31

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\12292006\J571836.raw

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3 <110> APPLICANT: Jialin, Sun
5 <120> TITLE OF INVENTION: A superantigen fusion protein for anti-cancer therapy and
methods for the
6     production thereof
8 <130> FILE REFERENCE: 09548.1019USWO
10 <140> CURRENT APPLICATION NUMBER: 10/571,836
11 <141> CURRENT FILING DATE: 2006-03-15
13 <150> PRIOR APPLICATION NUMBER: PCT/CN2004/000569
14 <151> PRIOR FILING DATE: 2004-05-31
16 <150> PRIOR APPLICATION NUMBER: CN 200310109829.7
17 <151> PRIOR FILING DATE: 2003-12-21
19 <160> NUMBER OF SEQ ID NOS: 15
21 <170> SOFTWARE: PatentIn version 3.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 903
25 <212> TYPE: DNA
26 <213> ORGANISM: artificial sequence
28 <220> FEATURE:
29 <221> NAME/KEY: misc_feature
30 <222> LOCATION: (1)..(903)
31 <223> OTHER INFORMATION: coding sequence of fusion protein
33 <400> SEQUENCE: 1
34 aattccgata gcgagtgtcc tctgagtcac gatggttact gtctacatga cggcgtctgt      60
35 atgtatattg aggctctaga caagtacgcg tgtaattgctg ttgttggtgcta catcggtgag      120
36 cgctgtcagt atcgagatct gaaatggtgg gaacttagag gtggaggcggg ttcaggcgga      180
37 ggtggctctg gcggtggcgg atcgagcgag aaaagcgaag aaataaatga aaaagatttg      240
38 cgaaaaaagt ctgaattgca gggaacagct ttaggcaatc ttaaacaaat ctattattac      300
39 aatgaaaaag ctaaaactga aaataaagag agtcacgata aattttttaca gcatactata      360
40 ttgttttaaag gctttttttac agatcattcg tgggtataacg attttattagt agattttgat      420
41 tcaaaggata ttgttgataa atataaaggg aaaaaagtag acttgtagtg tgcttattat      480
42 gggttatcaat gtgcgggtgg tacaccaaac aaaacagctt gtatgtatgg tgggtgtaacg      540
43 ttacatgata ataatcgatt gaccgaagag aaaaaagtg ccatcaattt atggctagac      600
44 ggtaaacaaa atacagtacc tttggaaacg gttaaaacga ataagaaaaa tgtaactgtt      660
45 caggagtttg atcttcaagc aagacgttat ttacaggaaa aatataattt atataactct      720
46 gatgtttttg atgggaaggt tcagagggga ttaatcgtgt ttcatacttc tacagaacct      780
47 tcggttaatt acgatttatt tgggtgctcaa ggacagtatt caaatacact attaagaata      840
48 tatagagata ataaaacgat taactctgaa aacatgcata ttgatataata tttatataca      900
49 agt
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 301
53 <212> TYPE: PRT
54 <213> ORGANISM: artificial sequence
56 <220> FEATURE:
57 <221> NAME/KEY: misc_feature

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58 <222> LOCATION: (1)..(301)

59 <223> OTHER INFORMATION: fusion protein

67 <400> SEQUENCE: 2

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68 Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His
69 1          5          10          15
70 Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn
71          20          25          30
72 Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys
73          35          40          45
74 Trp Trp Glu Leu Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
75          50          55          60
76 Gly Gly Gly Ser Ser Glu Lys Ser Glu Glu Ile Asn Glu Lys Asp Leu
77 65          70          75          80
78 Arg Lys Lys Ser Glu Leu Gln Gly Thr Ala Leu Gly Asn Leu Lys Gln
79          85          90          95
80 Ile Tyr Tyr Tyr Asn Glu Lys Ala Lys Thr Glu Asn Lys Glu Ser His
81          100         105         110
82 Asp Gln Phe Leu Gln His Thr Ile Leu Phe Lys Gly Phe Phe Thr Asp
83          115         120         125
84 His Ser Trp Tyr Asn Asp Leu Leu Val Asp Phe Asp Ser Lys Asp Ile
85          130         135         140
86 Val Asp Lys Tyr Lys Gly Lys Lys Val Asp Leu Tyr Gly Ala Tyr Tyr
87 145         150         155         160
88 Gly Tyr Gln Cys Ala Gly Gly Thr Pro Asn Lys Thr Ala Cys Met Tyr
89          165         170         175
90 Gly Gly Val Thr Leu His Asp Asn Asn Arg Leu Thr Glu Glu Lys Lys
91          180         185         190
92 Val Pro Ile Asn Leu Trp Leu Asp Gly Lys Gln Asn Thr Val Pro Leu
93          195         200         205
94 Glu Thr Val Lys Thr Asn Lys Lys Asn Val Thr Val Gln Glu Leu Asp
95          210         215         220
96 Leu Gln Ala Arg Arg Tyr Leu Gln Glu Lys Tyr Asn Leu Tyr Asn Ser
97 225         230         235         240
98 Asp Val Phe Asp Gly Lys Val Gln Arg Gly Leu Ile Val Phe His Thr
99          245         250         255
100 Ser Thr Glu Pro Ser Val Asn Tyr Asp Leu Phe Gly Ala Gln Gly Gln
101          260         265         270
102 Tyr Ser Asn Thr Leu Leu Arg Ile Tyr Arg Asp Asn Lys Thr Ile Asn
103          275         280         285
104 Ser Glu Asn Met His Ile Asp Ile Tyr Leu Tyr Thr Ser
105          290         295         300

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107 <210> SEQ ID NO: 3

108 <211> LENGTH: 1107

109 <212> TYPE: DNA

110 <213> ORGANISM: artificial sequence

112 <220> FEATURE:

113 <221> NAME/KEY: misc_feature

114 <222> LOCATION: (1)..(1107)

115 <223> OTHER INFORMATION: coding sequence of fusion protein

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117 <400> SEQUENCE: 3

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118 gcacccatgg cagaaggagg agggcagaat catcacgaag tgggtgaagtt catggatgtc      60
119 tatcagcgca gctactgcca tccaatcgag accctggtgg acatcttcca ggagtaccct      120
120 gatgagatcg agtacatctt caagccatcc tgtgtgcccc tgatgcgatg cgggggctgc      180
121 tgcaatgacg agggcctgga gtgtgtgccc actgaggagt ccaacatcac catgcagatt      240
122 atgcggatca aacctcacca aggccagcac ataggagaga tgagcttcct acagcacaac      300
123 aaatgtgaat gcagaccaa gaaagataga gcaagacaag aaaaatgtga caagccgagg      360
124 cgggggtggag gcggttcagg cggaggtggc tctggcggtg gcggatcgag cgagaaaagc      420
125 gaagaaataa atgaaaaaga tttgcgaaa aagtctgaat tgcagggaac agctttaggc      480
126 aatcttaaac aaatctatta ttacaatgaa aaagctaaaa ctgaaaataa agagagtcac      540
127 gatcaatttt tacagcatat tatattgttt aaaggctttt ttacagatca ttcgtggtat      600
128 aacgatttat tagtagattt tgattcaaag gatattgttg ataaatataa agggaaaaaa      660
129 gtagacttgt atggtgctta ttatggttat caatgtgcgg gtggtacacc aaacaaaaca      720
130 gcttgatatg atggtggtgt aacggttacat gataataatc gattgaccga agagaaaaaa      780
131 gtgccgatca atttatggct agacggtaaa caaataacag tacctttgga aacggttaaa      840
132 acgaataaga aaaatgtaac tgttcaggag ttggatcttc aagcaagacg ttatttacag      900
133 gaaaaatata atttatataa ctctgatgtt tttgatggga aggttcagag gggattaatc      960
134 gtgtttcata cttctacaga accttcggtt aattacgatt tatttggtgc tcaaggacag     1020
135 tattcaaata cactattaag aatatataga gataataaaa cgattaactc tgaaaacatg     1080
136 catattgata tatatttata tacaagt                                     1107

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138 <210> SEQ ID NO: 4

139 <211> LENGTH: 369

140 <212> TYPE: PRT

141 <213> ORGANISM: artificial sequence

143 <220> FEATURE:

144 <221> NAME/KEY: misc_feature

145 <222> LOCATION: (1)..(369)

146 <223> OTHER INFORMATION: fusion protein

148 <400> SEQUENCE: 4

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149 Ala Pro Met Ala Glu Gly Gly Gly Gln Asn His His Glu Val Val Lys
150 1          5          10          15
151 Phe Met Asp Val Tyr Gln Arg Ser Tyr Cys His Pro Ile Glu Thr Leu
152          20          25          30
153 Val Asp Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys
154          35          40          45
155 Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu
156          50          55          60
157 Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile
158 65          70          75          80
159 Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser Phe
160          85          90          95
161 Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg
162          100         105         110
163 Gln Glu Lys Cys Asp Lys Pro Arg Arg Gly Gly Gly Gly Ser Gly Gly
164          115         120         125
165 Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Lys Ser Glu Glu Ile Asn
166          130         135         140
167 Glu Lys Asp Leu Arg Lys Lys Ser Glu Leu Gln Gly Thr Ala Leu Gly
168 145         150         155         160

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169 Asn Leu Lys Gln Ile Tyr Tyr Tyr Asn Glu Lys Ala Lys Thr Glu Asn
170                               165                               170                               175
171 Lys Glu Ser His Asp Gln Phe Leu Gln His Thr Ile Leu Phe Lys Gly
172                               180                               185                               190
173 Phe Phe Thr Asp His Ser Trp Tyr Asn Asp Leu Leu Val Asp Phe Asp
174                               195                               200                               205
175 Ser Lys Asp Ile Val Asp Lys Tyr Lys Gly Lys Lys Val Asp Leu Tyr
176                               210                               215                               220
177 Gly Ala Tyr Tyr Gly Tyr Gln Cys Ala Gly Gly Thr Pro Asn Lys Thr
178 225                               230                               235                               240
179 Ala Cys Met Tyr Gly Gly Val Thr Leu His Asp Asn Asn Arg Leu Thr
180                               245                               250                               255
181 Glu Glu Lys Lys Val Pro Ile Asn Leu Trp Leu Asp Gly Lys Gln Asn
182                               260                               265                               270
183 Thr Val Pro Leu Glu Thr Val Lys Thr Asn Lys Lys Asn Val Thr Val
184                               275                               280                               285
185 Gln Glu Leu Asp Leu Gln Ala Arg Arg Tyr Leu Gln Glu Lys Tyr Asn
186                               290                               295                               300
187 Leu Tyr Asn Ser Asp Val Phe Asp Gly Lys Val Gln Arg Gly Leu Ile
188 305                               310                               315                               320
189 Val Phe His Thr Ser Thr Glu Pro Ser Val Asn Tyr Asp Leu Phe Gly
190                               325                               330                               335
191 Ala Gln Gly Gln Tyr Ser Asn Thr Leu Leu Arg Ile Tyr Arg Asp Asn
192                               340                               345                               350
193 Lys Thr Ile Asn Ser Glu Asn Met His Ile Asp Ile Tyr Leu Tyr Thr
194                               355                               360                               365

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195 Ser

198 <210> SEQ ID NO: 5

199 <211> LENGTH: 45

200 <212> TYPE: DNA

201 <213> ORGANISM: artificial sequence

203 <220> FEATURE:

204 <221> NAME/KEY: misc_feature

205 <222> LOCATION: (1)..(45)

206 <223> OTHER INFORMATION: primer

208 <400> SEQUENCE: 5

209 ggtggaggcg gttcaggcgg aggtggctct ggcggtggcg gatcg

45

211 <210> SEQ ID NO: 6

212 <211> LENGTH: 15

213 <212> TYPE: PRT

214 <213> ORGANISM: artificial sequence

216 <220> FEATURE:

217 <221> NAME/KEY: misc_feature

218 <222> LOCATION: (1)..(15)

219 <223> OTHER INFORMATION: linker peptide

221 <400> SEQUENCE: 6

223 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser

224 1

5

10

15

226 <210> SEQ ID NO: 7

RAW SEQUENCE LISTING

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Input Set : A:\PTO.SS.txt

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227 <211> LENGTH: 34
228 <212> TYPE: DNA
229 <213> ORGANISM: artificial sequence
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (1)..(34)
234 <223> OTHER INFORMATION: primer
236 <400> SEQUENCE: 7
237 gagcccgggc agcgagaaaa gcgaagaaat aaat 34
239 <210> SEQ ID NO: 8
240 <211> LENGTH: 40
241 <212> TYPE: DNA
242 <213> ORGANISM: artificial sequence
244 <220> FEATURE:
245 <221> NAME/KEY: misc_feature
246 <222> LOCATION: (1)..(40)
247 <223> OTHER INFORMATION: primer
249 <400> SEQUENCE: 8
250 gtgcggccgc acttgatat aaatatatat caatatgcat 40
252 <210> SEQ ID NO: 9
253 <211> LENGTH: 28
254 <212> TYPE: DNA
255 <213> ORGANISM: artificial sequence
257 <220> FEATURE:
258 <221> NAME/KEY: misc_feature
259 <222> LOCATION: (1)..(28)
260 <223> OTHER INFORMATION: primer
262 <400> SEQUENCE: 9
263 gagcccgggc aattccgata gcgagtgt 28
265 <210> SEQ ID NO: 10
266 <211> LENGTH: 28
267 <212> TYPE: DNA
268 <213> ORGANISM: artificial sequence
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature
272 <222> LOCATION: (1)..(28)
273 <223> OTHER INFORMATION: primer
275 <400> SEQUENCE: 10
276 gtgcggccgc tctaagttcc caccat 28
278 <210> SEQ ID NO: 11
279 <211> LENGTH: 31
280 <212> TYPE: DNA
281 <213> ORGANISM: artificial sequence
283 <220> FEATURE:
284 <221> NAME/KEY: misc_feature
285 <222> LOCATION: (1)..(31)
286 <223> OTHER INFORMATION: primer
288 <400> SEQUENCE: 11
289 gagcccgggc gcacccatgg cagaaggagg a 31

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/571,836

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Input Set : A:\PTO.SS.txt
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

VERIFICATION SUMMARY

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